

## Refine Search

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### Search Results -

Terms	Documents
(whey)near8 (dialyz\$)	38

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### Search History

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**DATE:** Monday, March 15, 2004 [Printable Copy](#) [Create Case](#)

Set Name	Query	Hit Count	Set Name
side by side			result set
	<i>DB=USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<u>L24</u>	(whey)near8 (dialyz\$)	38	<u>L24</u>
<u>L23</u>	(purif\$)near5 (whey)near10 (dialyz\$)	2	<u>L23</u>
<u>L22</u>	(purif\$)near5 (whey)near10 (low or acid\$)near0 ph	2	<u>L22</u>
<u>L21</u>	(purif\$)near3 (whey)near10 ph	16	<u>L21</u>
<u>L20</u>	(purif\$)near4 (whey)	284	<u>L20</u>
<u>L19</u>	(purif\$ whey)near10 (centrif\$)	3	<u>L19</u>
<u>L18</u>	L17 same (acid) same (ph)	5	<u>L18</u>
<u>L17</u>	(purif\$ whey)	75	<u>L17</u>
<u>L16</u>	(purif\$ whey)same (acid\$ ph)	0	<u>L16</u>
<u>L15</u>	L13 and calcium	1	<u>L15</u>
<u>L14</u>	L13 and acid	1	<u>L14</u>
<u>L13</u>	4125527.pn.	4	<u>L13</u>
<u>L12</u>	17 and (acid or sweet)	1	<u>L12</u>
<u>L11</u>	(whey)near5 (acid\$)near7 (ph) same (lipid\$ or fat\$)	76	<u>L11</u>

<u>L10</u>	(acid\$ ph) near5 (whey) same (fat\$ or lipid\$)	11	<u>L10</u>
<u>L9</u>	(acid\$ ph) near5 (whey)	84	<u>L9</u>
<u>L8</u>	(acid\$ ph) same (whey)	325	<u>L8</u>
<u>L7</u>	4436658.pn. and centri\$	1	<u>L7</u>
<u>L6</u>	L3 and centri\$	6	<u>L6</u>
<u>L5</u>	(centri)near10 (whey)	5	<u>L5</u>
<u>L4</u>	L3 same centri\$	0	<u>L4</u>
<u>L3</u>	L2 same ph	11	<u>L3</u>
<u>L2</u>	(whey)near10(silic\$)	43	<u>L2</u>
<u>L1</u>	(whey)same (silic\$)	192	<u>L1</u>

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PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'WHEY) (P) (SILIC?'  
L1 845 (WHEY) (P) (SILIC?)

=> s l1 and (centri?)  
42 FILES SEARCHED...  
L2 84 L1 AND (CENTRI?)

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ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE  
PROCESSING COMPLETED FOR L2  
L3 79 DUP REM L2 (5 DUPLICATES REMOVED)

=> s l3 and pH  
33 FILES SEARCHED...  
57 FILES SEARCHED...  
L4 59 L3 AND pH

=> s l4 and dialyz?  
48 FILES SEARCHED...  
L5 5 L4 AND DIALYZ?

=> d ibib abs l5 1-5

L5 ANSWER 1 OF 5 IFIPAT COPYRIGHT 2004 IFI on STN  
AN 10282441 IFIPAT;IFIUDB;IFICDB  
TITLE: PROCESS FOR PREPARING PROTEIN ISOLATE FROM MILK,  
WHEY, COLOSTRUM, AND THE LIKE; CLARIFICATION,  
PURIFICATION  
INVENTOR(S): Etzel; Lisa R., Ames, IA, US  
Strohbehn; Ronald E., Nevada, IA, US  
PATENT ASSIGNEE(S): Unassigned  
AGENT: MCKEE, VOORHEES & SEASE, P.L.C., 801 GRAND AVENUE,  
SUITE 3200, DES MOINES, IA, 50309-2721, US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2003026845	A1	20030206
APPLICATION INFORMATION:	US 2001-883648		20010618
FAMILY INFORMATION:	US 2003026845		20030206
DOCUMENT TYPE:	Utility		Patent Application - First Publication
FILE SEGMENT:	CHEMICAL		
	APPLICATION		
NUMBER OF CLAIMS:	43 3 Figure(s).		DESCRIPTION OF FIGURES:

FIG. 1 is a diagram depicting the essential steps of the clarification process.  
FIG. 2 is a gel showing the electrophoretic separation of the protein components of whey.  
FIG. 3 is a gel showing the proteins present at different stages of the process of the invention.

AB According to the invention, Applicants have identified a clarification process which is simple and quick and provides a protein isolate of greater than 90% whey protein which may then optionally be further purified to select out individual proteins. The process involves a number of steps, the order of which is critical, and novel lipid removal techniques to achieving the highly pure and clarified protein isolate of the invention.

CLMN 43 3 Figure(s).  
FIG. 1 is a diagram depicting the essential steps of the clarification

process.

FIG. 2 is a gel showing the electrophoretic separation of the protein components of whey.

FIG. 3 is a gel showing the proteins present at different stages of the process of the invention.

L5 ANSWER 2 OF 5 USPATFULL on STN  
ACCESSION NUMBER: 1999:75769 USPATFULL  
TITLE: Isolation of lactoferrin from milk  
INVENTOR(S): Nuyens, Jan H., MV Ileiloo, Netherlands  
Van Veen, Harry H., NB Boskoop, Netherlands  
PATENT ASSIGNEE(S): Pharming B.V., Leiden, Netherlands (non-U.S.  
corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5919913 19990706  
APPLICATION INFO.: US 1995-406271 19950309 (8)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 1994-198321, filed on 16  
Feb 1994, now abandoned

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Degen, Nancy

LEGAL REPRESENTATIVE: Townsend & Townsend & Crew

NUMBER OF CLAIMS: 27

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 13 Drawing Figure(s); 13 Drawing Page(s)

LINE COUNT: 1883

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods for purification of human lactoferrin from milk, especially milk of nonhuman species, and for separation of human lactoferrin from undesired macromolecular species present in the milk, including separation from nonhuman lactoferrin species.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 5 USPATFULL on STN  
ACCESSION NUMBER: 1999:7477 USPATFULL  
TITLE: Isolation of lactoferrin from milk  
INVENTOR(S): Nuijens, Jan H., Heiloo, Netherlands  
Van Veen, Harry H., Boskoop, Netherlands  
PATENT ASSIGNEE(S): Pharming B.V., Leiden, Netherlands (non-U.S.  
corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5861491 19990119  
WO 9522258 19950824  
APPLICATION INFO.: US 1996-693274 19961016 (8)  
WO 1995-EP583 19950216  
19961016 PCT 371 date  
19961016 PCT 102(e) date

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Degen, Nancy

LEGAL REPRESENTATIVE: Townsend & Townsend & Crew LLP

NUMBER OF CLAIMS: 11

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 15 Drawing Figure(s); 15 Drawing Page(s)

LINE COUNT: 1821

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods for purification of human lactoferrin from milk, especially milk of nonhuman species, and for separation of human lactoferrin from undesired macromolecular species present in the

milk, including separation from nonhuman lactoferrin species.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 5 USPATFULL on STN

ACCESSION NUMBER: 1998:157484 USPATFULL  
TITLE: Isolation of lactoferrin from milk  
INVENTOR(S): Nuyens, Jan H., Heiloo, Netherlands  
PATENT ASSIGNEE(S): Van Veen, Harry H., Boskoop, Netherlands  
Gene Pharming Europe B.V., Leiden, Netherlands  
(non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5849885 19981215  
APPLICATION INFO.: US 1995-464182 19950605 (8)  
RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-406271, filed on 9 Mar  
1995 which is a continuation of Ser. No. US  
1994-198321, filed on 16 Feb 1994, now abandoned  
DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Degen, Nancy  
LEGAL REPRESENTATIVE: Townsend and Townsend and Crew LLP  
NUMBER OF CLAIMS: 27  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 13 Drawing Page(s)  
LINE COUNT: 1818

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods for purification of human lactoferrin  
from milk, especially milk of nonhuman species, and for separation of  
human lactoferrin from undesired macromolecular species present in the  
milk, including separation from nonhuman lactoferrin species.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 5 USPATFULL on STN

ACCESSION NUMBER: 87:38075 USPATFULL  
TITLE: Method for separating bovine lactoferrin from cow's  
milk and purifying same  
INVENTOR(S): Kawakami, Hiroshi, Kawagoe, Japan  
Shinmoto, Hiroshi, Kawagoe, Japan  
Dosako, Shunichi, Urawa, Japan  
Ahiko, Kenkichi, Tokyo, Japan  
PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan (non-U.S.  
corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 4668771 19870526  
APPLICATION INFO.: US 1985-808899 19851213 (6)

NUMBER DATE

PRIORITY INFORMATION: JP 1984-266401 19841219  
DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Schain, Howard E.  
LEGAL REPRESENTATIVE: McGlew and Tuttle  
NUMBER OF CLAIMS: 5  
EXEMPLARY CLAIM: 1  
LINE COUNT: 545

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention discloses a method for separating a highly pure form of  
bovine lactoferrin from cow's milk and purifying same which comprises

preparing an affinity-chromatographic column by fixing a monoclonal antibody against bovine lactoferrin to an insoluble carrier; passing milk or a solution of bovine lactoferrin derived from cow'milk through the affinity-chromatographic column; and then eluting the bovine lactoferrin adsorbed to the affinity-chromatographic column.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.